

=> d his

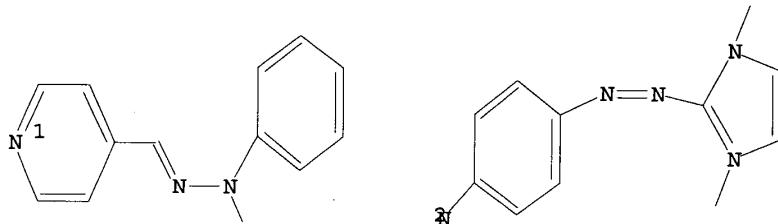
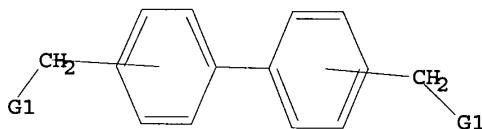
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FILE 'REGISTRY' ENTERED AT 13:21:39 ON 10 JUN 2006

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 L2 STRUCTURE UPLOADED
 L3 1 S L1 OR L2
 L4 22 S L3 FULL

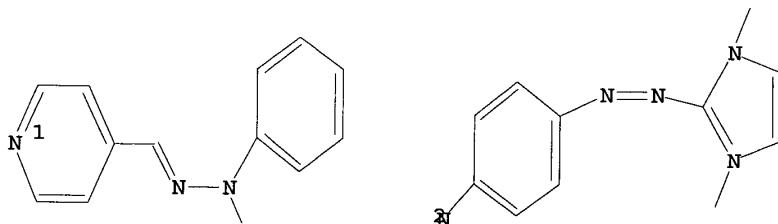
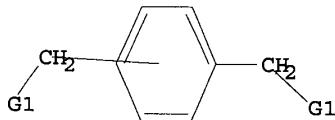
FILE 'CAPLUS' ENTERED AT 13:22:54 ON 10 JUN 2006
 L5 3 S L4

=> d que 15 stat
 L1 STR



G1 [@1], [@2]

Structure attributes must be viewed using STN Express query preparation.
 L2 STR



G1 [@1], [@2]

Structure attributes must be viewed using STN Express query preparation.
 L4 22 SEA FILE=REGISTRY SSS FUL L1 OR L2
 L5 3 SEA FILE=CAPLUS ABB=ON PLU=ON L4

=> d 1-3 bib abs hitstr

L5 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 2006:166129 CAPLUS
 DN 144:263646
 TI High-capacity optical storage media
 IN Bacher, Jean-Pierre; Baudin, Gisele; Wendeborn, Frederique; Adam, Jean-Marie; Lehmann, Urs; Birbaum, Jean-Luc
 PA Ciba Specialty Chemicals Holding Inc., Switz.
 SO PCT Int. Appl., 120 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2006018352	A1	20060223	WO 2005-EP53215	20050706
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
PRAI	EP 2004-103931	A	20040816		
	EP 2004-105558	A	20041105		
	EP 2005-100720	A	20050202		

GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The invention accordingly relates to an optical recording medium comprises a substrate, a reflecting layer and a recording layer, wherein the recording layer comprises a compound of formula I or a mesomeric or tautomeric form thereof (M1 is a metal cation in the oxidation state +3, a hydroxy or halogeno metal group wherein the metal is in the oxidation state +4, or an oxo metal group wherein the metal is in the oxidation state +5; III and IV are each independently of the other V, VI or VII; VIII is IX, X, XI, XII, XIII or XIV; XV is XVI or C2-8 heteroaryl unsubstituted or mono- or poly-substituted by R10-13; Q1 = N or CR18; Q2 = N or CR19; Q3, Q5 and Q7 are each independently of the other CR20R21, O, S or NR22; Q4 = CR16 or N and Q6 is CR17 or N; and R2 and/or R6 = O, S or NR33; R1,3-5,7-13,15-19 = H, halogen OR23, SR23, NR22R24, etc.; R14 = C1-12 alkyl, C3-12 cycloalkyl, etc.; R20,21 = C1-12 alkyl, C2-12 alkenyl, etc.; R22 = H, C1-4 alkyl, C2-4 alkenyl, etc.; R24,26,27 = H, C1-6 alkyl, C2-6 alkenyl, etc.; R33 = COR24, COR26R27, CN, etc.). Please see the disclosure for the other substituents which are less relevant. The compds. of formula I are novel and also claimed, as well as the compound of formula II, or a meso-mer or tautomer thereof (R38 = halogen, CF3, NO2, CN, COR22, COOR23, SO3R23, NCO or SCN; G1, G 2, M1, R1, R2, R4, R5, R6, R8, R22 and R23 are as defined in formula I; M2m+ = cation with m pos. charges; and m = integer 1, 2 or 3). The optical recording media are remarkably suitable for DVD±R (658 nm), especially at high recording speeds.

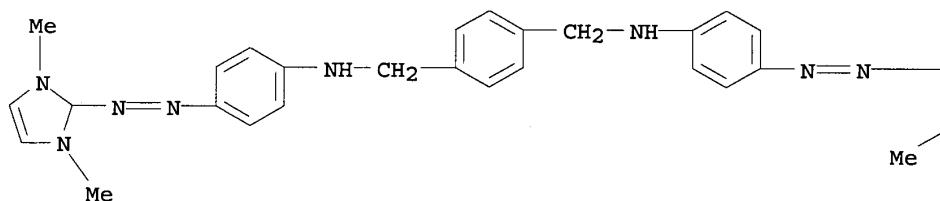
IT 877313-08-1
 RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
 (high-capacity optical storage media containing)

RN 877313-08-1 CAPLUS
 CN INDEX NAME NOT YET ASSIGNED

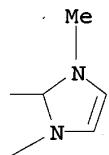
CM 1

CRN 794486-94-5
 CMF C30 H34 N10

PAGE 1-A



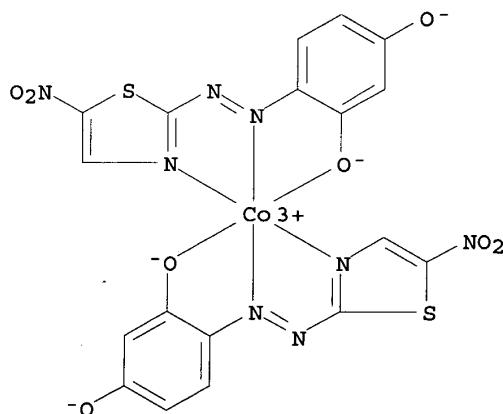
PAGE 1-B



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

CM 2

CRN 776325-16-7
 CMF C18 H8 Co N8 O8 S2
 CCI CCS



IT 877178-57-9P
 RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP

(Preparation); RACT (Reactant or reagent)
 (preparation of high-capacity optical storage media)

RN 877178-57-9 CAPLUS

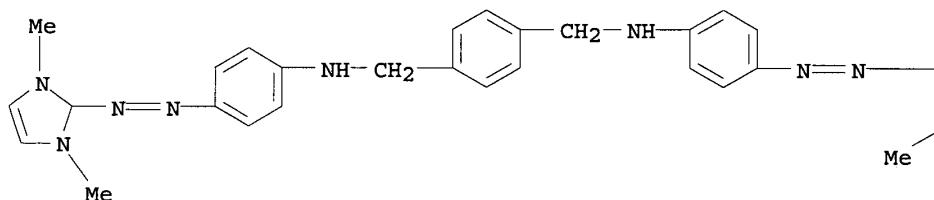
CN 1H-Imidazolium, 2,2'-(1,4-phenylenebis(methyleneimino-4,1-phenyleneazo)]bis[1,3-dimethyl-, bis(methyl sulfate) (9CI) (CA INDEX NAME)

CM 1

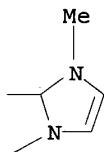
CRN 794486-94-5

CMF C30 H34 N10

PAGE 1-A



PAGE 1-B



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CM 2

CRN 21228-90-0

CMF C H3 O4 S

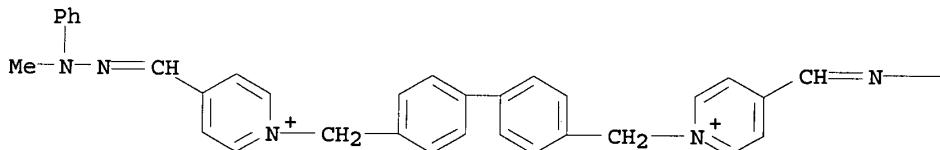
Me-O-SO₃⁻

RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 2005:441245 CAPLUS
 DN 144:234598
 TI Cationic dimeric dyes
 AU Anon.
 CS USA
 SO IP.com Journal (2004), 4(10), 28 (No. IPCOM000031281D), 21 Sep 2004
 CODEN: IJPOBX; ISSN: 1533-0001
 PB IP.com, Inc.
 DT Journal; Patent
 LA English

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI IP 31281D	-----	20040921	-----	-----
PRAI IP 2004-31281D	20040921			
AB	Bispyridinium conjugated azomethine dyes for hair are prepared and formulations containing them are described. As an example, N-methyl-N-phenylhydrazine is condensed with 4-pyridinecarboxaldehyde and the product is then treated with 4,4'-bis(chloromethyl)biphenyl to provide a brown dye.			
IT 765918-45-4P	RL: RCT (Reactant); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); RACT (Reactant or reagent); USES (Uses) (brown dye; preparation of cationic dimeric dyes for hair)			
RN 765918-45-4 CAPLUS				
CN Pyridinium, 1,1'-[[1,1'-biphenyl]-4,4'-diylbis(methylene)]bis[4-[(methylphenylhydrazono)methyl]-, dichloride (9CI) (CA INDEX NAME)				

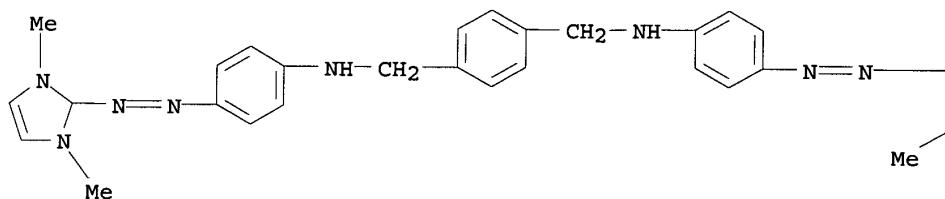
PAGE 1-A

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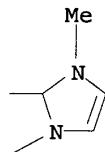
PAGE 1-B

IT 765918-49-8P 765918-54-5P 765918-58-9P
 765918-60-3P 876109-18-1P 876109-20-5P
 RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (dye; preparation of cationic dimeric dyes for hair)
 RN 765918-49-8 CAPLUS
 CN 1H-Imidazolium, 2,2'-[1,4-phenylenebis(methyleneimino-4,1-phenyleneazo)]bis[1,3-dimethyl-, dichloride (9CI) (CA INDEX NAME)

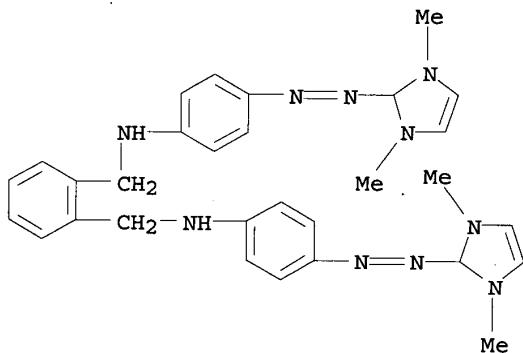
PAGE 1-A

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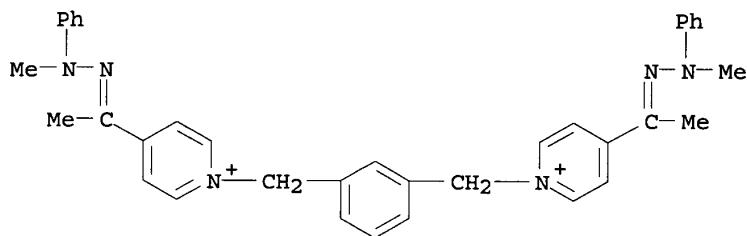
PAGE 1-B



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 765918-54-5 CAPLUS
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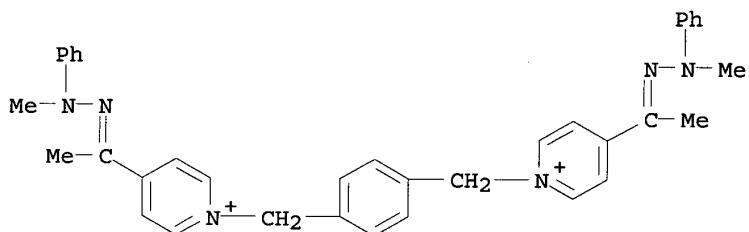
●2 Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 765918-58-9 CAPLUS
 CN Pyridinium, 1,1'-[1,3-phenylenebis(methylene)]bis[4-[1-(methylphenylhydrazone)ethyl]-, dibromide (9CI) (CA INDEX NAME)

●2 Br⁻

RN 765918-60-3 CAPLUS

CN Pyridinium, 1,1'-(1,4-phenylenebis(methylene))bis[4-[1-(methylphenylhydrazone)ethyl]-, dichloride (9CI) (CA INDEX NAME)

●2 Cl⁻

RN 876109-18-1 CAPLUS

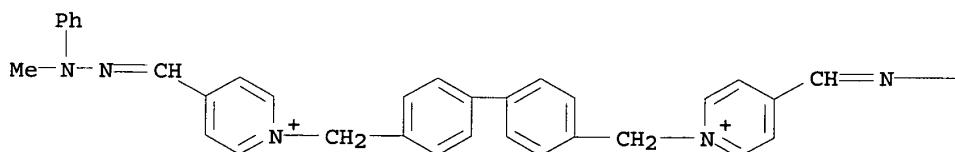
CN Pyridinium, 1,1'-(1,1'-biphenyl)-4,4'-diylbis(methylene))bis[4-[1-(methylphenylhydrazone)methyl]-, diacetate (9CI) (CA INDEX NAME)

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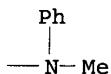
CRN 794486-92-3

CMF C40 H38 N6

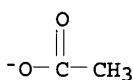
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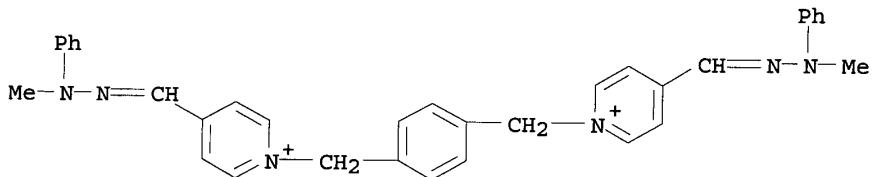
PAGE 1-B



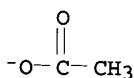
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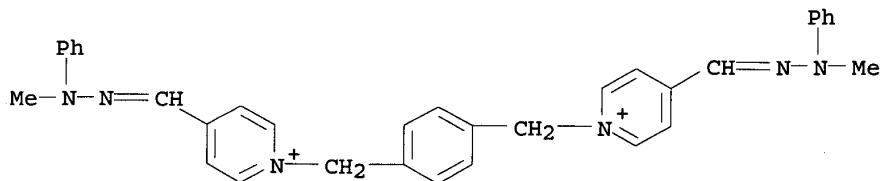
CRN 71-50-1
CMF C2 H3 O2RN 876109-20-5 CAPLUS
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CM 1

CRN 794486-93-4
CMF C34 H34 N6

CM 2

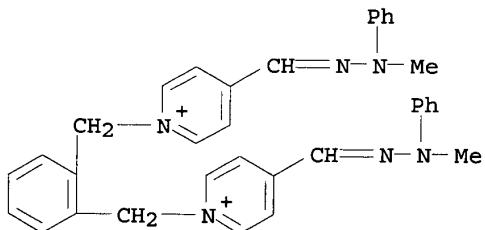
CRN 71-50-1
CMF C2 H3 O2IT 765918-47-6P 765918-52-3P 765918-56-7P
765918-62-5P
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(orange dye; preparation of cationic dimeric dyes for hair)
RN 765918-47-6 CAPLUS
CN Pyridinium, 1,1'-[1,4-phenylenebis(methylene)]bis[4-[(methylphenylhydrazone)methyl]-, dichloride (9CI) (CA INDEX NAME)



●2 Cl⁻

RN 765918-52-3 CAPLUS

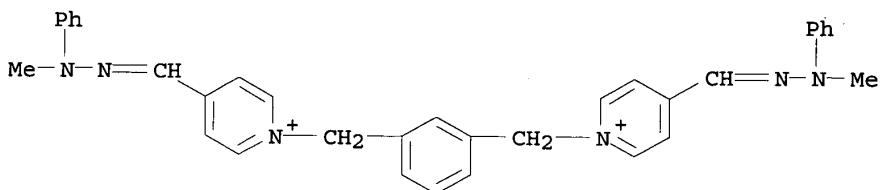
CN Pyridinium, 1,1'-[1,2-phenylenebis(methylene)]bis[4-[(methylphenylhydrazone)methyl]-], dichloride (9CI) (CA INDEX NAME)



●2 Cl⁻

RN 765918-56-7 CAPLUS

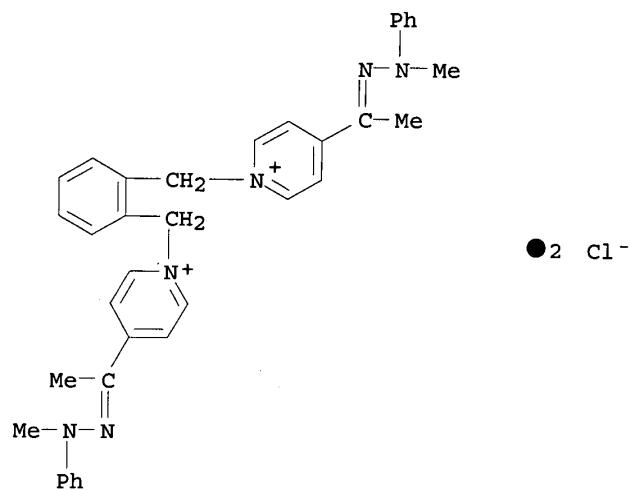
CN Pyridinium, 1,1'-[1,3-phenylenebis(methylene)]bis[4-[(methylphenylhydrazone)methyl]-], dibromide (9CI) (CA INDEX NAME)



●2 Br⁻

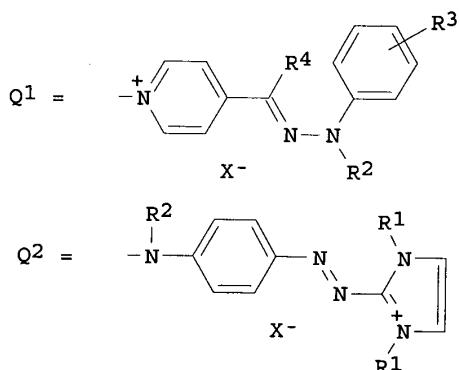
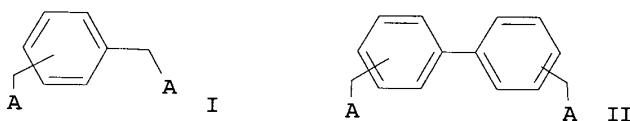
RN 765918-62-5 CAPLUS

CN Pyridinium, 1,1'-[1,2-phenylenebis(methylene)]bis[4-[(methylphenylhydrazone)ethyl]-], dichloride (9CI) (CA INDEX NAME)



L5 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2004:801976 CAPLUS
DN 141:315835
TI Cationic dimeric dyes having aminoazomethine or azo groups
IN Eliu, Victor Paul; Frohling, Beate
PA Germany
SO U.S. Pat. Appl. Publ., 48 pp.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 1

PATENT NO.		KIND	DATE	APPLICATION NO.	DATE
PI	US 2004187231	A1	20040930	US 2004-801892	20040316
	AU 2004222107	A1	20040930	AU 2004-222107	20040308
	WO 2004083312	A2	20040930	WO 2004-EP50268	20040308
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PRAI	CN 1761448	A	20060419	CN 2004-80007278	20040308
	EP 2003-405185	A	20030318		
	WO 2004-EP50268	A	20040308		
OS	MARPAT 141:315835				
GI					



AB The present invention relates to cationic dyes I and II, wherein A is Q1 or Q2, wherein R1 and R2 are each independently of the other unsubstituted or substituted C1-C14 alkyl or an aryl radical, R3 is hydrogen.

unsubstituted or substituted C1-C14 alkyl, unsubstituted or substituted C1-C14 alkoxy, cyano or halo, R4 is hydrogen, unsubstituted or substituted C1-C14 alkyl or an aryl radical, and X- is an anion. Further, the present invention relates to compns. thereof, especially comprising other dyes, to processes for the preparation thereof and to the use thereof in the dyeing of organic material, such as paper and human hair with shades that are fast to washing, light, shampooing, and rubbing. A typical dye was manufactured by adding 16.5 g 4-pyridinealdehyde in 15 min to H₂SO₄ 14, water 42, and α-methylphenylhydrazine 16.2 at 293K with stirring, stirring 1 h, adjusting the pH to 2.2 with aqueous NaOH, adding 2.7 g NaCl at 333K, stirring 1 h, dissolving the 39.3 g resulting hydrazone in 200 g iso-PrOH, adding 27 g 4,4'-bis(chloromethyl)biphenyl, heating to 338K, and stirring 5 h.

IT 765918-45-4P 765918-47-6P 765918-49-8P

765918-52-3P 765918-54-5P 765918-56-7P

765918-58-9P 765918-60-3P 765918-62-5P

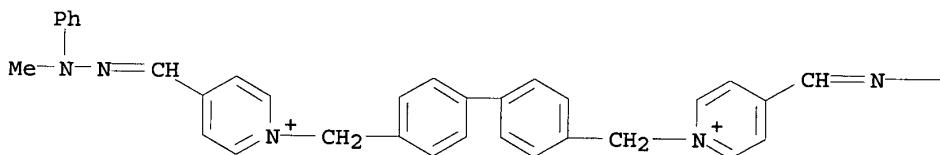
RL: COS (Cosmetic use); IMF (Industrial manufacture); TEM (Technical or engineered material use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(cationic dimeric dyes having aminoazomethine or azo groups for dyeing of paper and hair)

RN 765918-45-4 CAPLUS

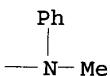
CN Pyridinium, 1,1'-[[1,1'-biphenyl]-4,4'-diylbis(methylene)]bis[4-[(methylphenylhydrazono)methyl]-, dichloride (9CI) (CA INDEX NAME)

PAGE 1-A



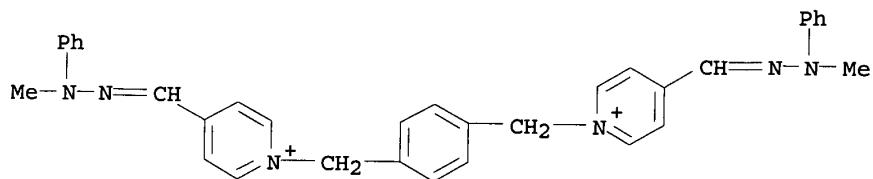
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PAGE 1-B



RN 765918-47-6 CAPLUS

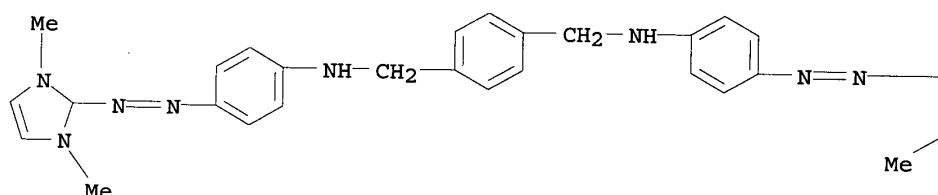
CN Pyridinium, 1,1'-[[1,4-phenylenebis(methylene)]bis[4-[(methylphenylhydrazono)methyl]-, dichloride (9CI) (CA INDEX NAME)

●2 Cl⁻

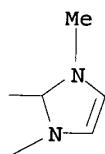
RN 765918-49-8 CAPLUS

CN 1H-Imidazolium, 2,2'-(1,4-phenylenebis(methyleneimino-4,1-phenyleneazo))bis[1,3-dimethyl-, dichloride (9CI) (CA INDEX NAME)

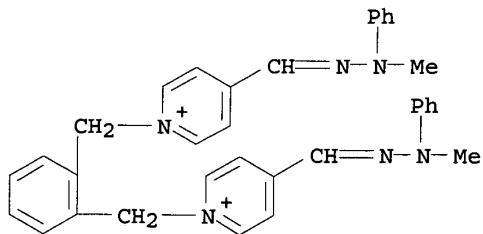
PAGE 1-A

●2 Cl⁻

PAGE 1-B

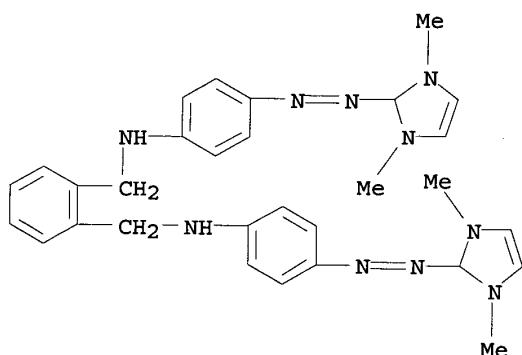
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 765918-52-3 CAPLUS

CN Pyridinium, 1,1'-(1,2-phenylenebis(methylene))bis[4-((methylphenylhydrazone)methyl]-, dichloride (9CI) (CA INDEX NAME)

●2 Cl⁻

RN 765918-54-5 CAPLUS

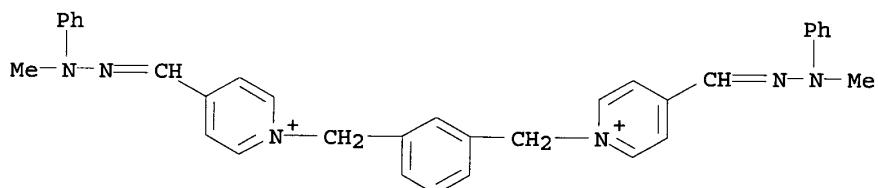
CN 1H-Imidazolium, 2,2'-(1,2-phenylenebis(methyleneimino-4,1-phenyleneazo))bis[1,3-dimethyl-, dichloride (9CI) (CA INDEX NAME)

●2 Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

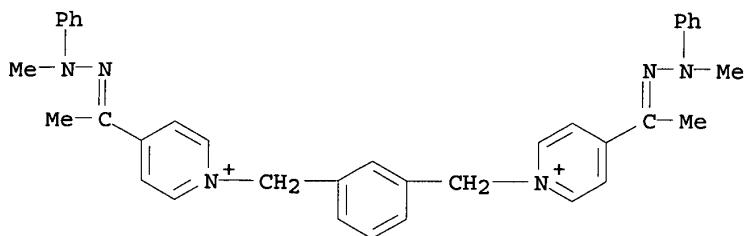
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●2 Br⁻

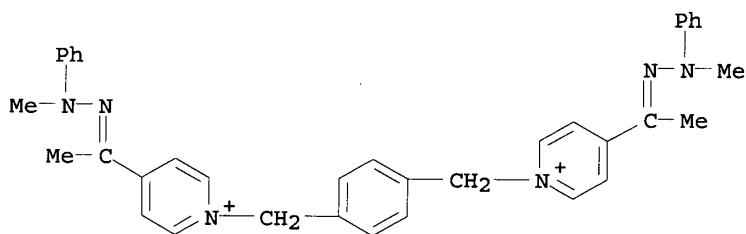
RN 765918-58-9 CAPLUS

CN Pyridinium, 1,1'-[1,3-phenylenebis(methylene)]bis[4-[1-(methylphenylhydrazone)ethyl]-, dibromide (9CI) (CA INDEX NAME)



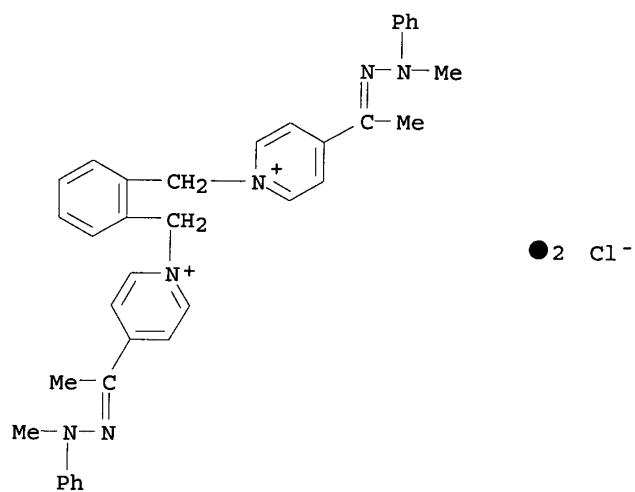
●2 Br⁻

RN 765918-60-3 CAPLUS
 CN Pyridinium, 1,1'-[1,4-phenylenebis(methylene)]bis[4-[1-(methylphenylhydrazone)ethyl]-, dichloride (9CI) (CA INDEX NAME)



●2 Cl⁻

RN 765918-62-5 CAPLUS
 CN Pyridinium, 1,1'-[1,2-phenylenebis(methylene)]bis[4-[1-(methylphenylhydrazone)ethyl]-, dichloride (9CI) (CA INDEX NAME)

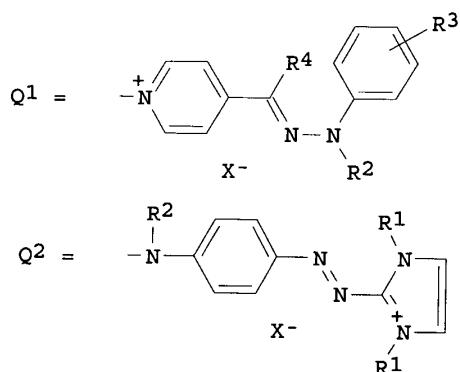
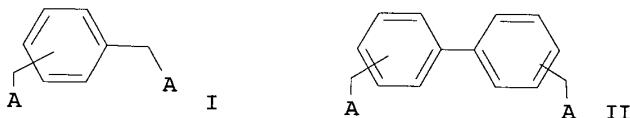


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          VICTOR PAUL"/AU)
L7      4  SEA FILE=CAPLUS ABB=ON  PLU=ON  "FROHLING BEATE"/AU
L8      28 SEA FILE=CAPLUS ABB=ON  PLU=ON  L6 OR L7
L9      11 SEA FILE=CAPLUS ABB=ON  PLU=ON  L8 AND CATIONIC
L10     1  SEA FILE=CAPLUS ABB=ON  PLU=ON  L9 AND DIMERIC
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L10 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2004:801976 CAPLUS
DN 141:315835
TI Cationic dimeric dyes having aminoazomethine or azo
groups
IN Eliu, Victor Paul; Frohling, Beate
PA Germany
SO U.S. Pat. Appl. Publ., 48 pp.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 1

PATENT NO.		KIND	DATE	APPLICATION NO.	DATE
PI	US 2004187231	A1	20040930	US 2004-801892	20040316
	AU 2004222107	A1	20040930	AU 2004-222107	20040308
	WO 2004083312	A2	20040930	WO 2004-EP50268	20040308
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	EP 1622686	A2	20060208	EP 2004-718316	20040308
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK				
PRAI	CN 1761448	A	20060419	CN 2004-80007278	20040308
	EP 2003-405185	A	20030318		
	WO 2004-EP50268	A	20040308		
OS	MARPAT 141:315835				
GI					



AB The present invention relates to cationic dyes I and II, wherein A is Q1 or Q2, wherein R1 and R2 are each independently of the other

unsubstituted or substituted C₁-C₁₄ alkyl or an aryl radical, R₃ is hydrogen, unsubstituted or substituted C₁-C₁₄ alkyl, unsubstituted or substituted C₁-C₁₄ alkoxy, cyano or halo, R₄ is hydrogen, unsubstituted or substituted C₁-C₁₄ alkyl or an aryl radical, and X⁻ is an anion. Further, the present invention relates to compns. thereof, especially comprising other dyes, to processes for the preparation thereof and to the use thereof in the dyeing of organic material, such as paper and human hair with shades that are fast to washing, light, shampooing, and rubbing. A typical dye was manufactured by adding 16.5 g 4-pyridinealdehyde in 15 min to H₂SO₄ 14, water 42, and α -methylphenylhydrazine 16.2 at 293K with stirring, stirring 1 h, adjusting the pH to 2.2 with aqueous NaOH, adding 2.7 g NaCl at 333K, stirring 1 h, dissolving the 39.3 g resulting hydrazone in 200 g iso-PrOH, adding 27 g 4,4'-bis(chloromethyl)biphenyl, heating to 338K, and stirring 5 h.

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=> d his full

(FILE 'HOME' ENTERED AT 13:21:31 ON 10 JUN 2006)

FILE 'REGISTRY' ENTERED AT 13:21:39 ON 10 JUN 2006
L1      STRUCTURE uploaded
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L2      STRUCTURE uploaded
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L3      1 SEA SSS SAM L1 OR L2
D SCAN
L4      22 SEA SSS FUL L1 OR L2

FILE 'CAPLUS' ENTERED AT 13:22:54 ON 10 JUN 2006
L5      3 SEA ABB=ON PLU=ON L4
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E ELIU VICTOR/AU
L6      27 SEA ABB=ON PLU=ON ("ELIU VICTOR"/AU OR "ELIU VICTOR PAUL"/AU)

E FROHLING BEATE/AU
L7      4 SEA ABB=ON PLU=ON "FROHLING BEATE"/AU
L8      28 SEA ABB=ON PLU=ON L6 OR L7
L9      11 SEA ABB=ON PLU=ON L8 AND CATIONIC
L10     1 SEA ABB=ON PLU=ON L9 AND DIMERIC
D QUE L10 STAT
D BIB ABS
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FILE HOME

FILE REGISTRY

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 9 JUN 2006 HIGHEST RN 887342-06-5
 DICTIONARY FILE UPDATES: 9 JUN 2006 HIGHEST RN 887342-06-5

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* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
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